IN THE CLAIMS

This listing of claims replaces all prior listings and versions of the claims in the present application.

Listing of Claims:

Claim 1-5 (Canceled).

Claim 6 (Currently Amended): An automated synthesis apparatus for carrying out chemical reactions with reflux cooling comprising:

one or more reactor modules each having one reactor;

one or more feed vessels each for a liquid reactant or reactant mixture; and

one or more metering and feed devices positionable in proximity with each said reactor for introduction of the liquid reactant or reactant mixture from the one or more feed ~~vessel~~ vessels into ~~the one or more reactors~~ each said reactor,

wherein each said reactor includes a lid configured as a hollow body to enclose a hollow space, with an inlet line and an outlet line for a heat transfer medium into or out of the hollow space and with ~~one or more~~ at least one through-[[lines]]line connected to each said reactor for introduction of each liquid reactant mixture into [[the]] each said reactor.

Claim 7 (Previously Presented): An automated synthesis apparatus as claimed in claim 6, wherein the lid is flat.

Claim 8 (Previously Presented): An automated synthesis apparatus as claimed in claim 7, wherein the lid is configured as a flat disk.

Claim 9 (Currently Amended): An automated synthesis apparatus as claimed in claim 6, wherein the inlet line for the heat transfer medium projects into the hollow space of the lid and/or the ~~outlet~~ at least one through-line line for the heat transfer medium ends ~~flush~~ at with an interior wall of the lid enclosing the hollow space.

Claim 10 (Currently Amended): An automated synthesis apparatus as claimed in claim 6, wherein the ~~one or more~~ at least one through-~~lines project~~line projects beyond a lower edge of the lid into [[the]] an interior space of [[the]] each said reactor.

Claim 11 (Currently Amended): An automated synthesis apparatus as claimed in claim 6, wherein the lid has an increased cross section at [[its]] an underside portion thereof and at [[its]] an upper side thereof.

Claim 12 (New): An automated synthesis apparatus as claimed in claim 6, wherein said reactor has a volume of from 1-100 ml.

Claim 13 (New): An automated synthesis apparatus as claimed in claim 6, wherein said reactor has a volume of from 10-50 ml.

Claim 14 (New): An automated synthesis apparatus as claimed in claim 12, wherein said reactor has a volume of from 10-50 ml.